ANNUAL INDEX

for Vol. 44-1955

PAGES IN EACH ISSUE

January	1– 30
February	31– 58
March	59–116
April	117–146
May	147–178
June	179–204
September	205–244
October	245–284
November	285–314
December	315–344

Agriculture

Integrating Electricity With Vocational Agriculture, Overton R. Johnson, 205

Auto Mechanics

Gear Shift Instructor, George W. Schneider, 238
General Auto Shop for the High School, A. C. Vasis, Jr., 303
Rehabilitated Senn High School Auto Shop, The, A. C. Vasis, Jr., 89
Shop Layouts — Ben Lomond High School, Don Campbell, Carl Wallis, ElMont Bingham, 100

Boats

How to Build the Sandra Lee II, Lawrence Lovegren, 231

Bruce's School Shop Annual

Balanced Tool Boards, Owen G. Parsons, 97
Co-op Plan for Training Printers, R. J. Mackin, 94
Co-ordinated Industrial Arts and Vocational Agriculture, Anson W. Thompson, 83
Course of Study in Shoe Repairing, A, Ernst H. Suerken, 101
Essential Construction Features of School Shops, William Joseph Becker, 66
Glossary of Heating and Ventilating Terms, Ernst H. Suerken, 38A (March)
How to Plan a Functional School Shop, Geo. A. Willoughby, 68
Industrial Arts in the Schools of Italy, Catherine F. Capocci, 114
Industrial-Arts Shop Planning Factors, Eckhart J. Heid and Gordon L. Paulsen, 59
Junior High School General Shop, A, Andrew K. Ault, 93
Marinette Vocational School Shop Annex, Joseph Longo, 76
Metal Storage Rack, Morris K. Sigurdson, 106
New Industrial-Arts Shops at Howe High School, Alfred P. Smith, 82
New Industrial-Education Center, J. H. Detrick, 78
Office Machines Repair, Equipment, Tools, and Supplies, L. G. Wines, 84A (March)
Refrigeration Equipment, Tools, and Supplies, L. G. Wines, 86A (March)
Rehabilitated Senn High School Auto Shop, The, A. C. Vasis, Jr., 89
Shop Classification Schedule, Dwight D. Chinnock, 95
Shop Layouts — Ben Lomond High School, Don Campbell, Carl Wallis, ElMont Bingham, 100
Shop Layouts, Grand Haven Senior High School, R. M. Van Volkinburg, 96
Shop Layouts — Senachwine Consolidated High School, Kenneth C. Brumm, 100
Shop Planning and Layout, Howard E. Zielfe, 71
3-D Block Layout and School Shop Planning, J. Lyman Goldsmith, 69

Ceramics and Plastics

Design for the Industrial-Arts Teacher, Alexander F. Bick, 296
Design in Plastics — A Desk Lamp, Robert Swanson, 301
Helping Children Work With Clay, Mary-Margaret Scobey, 293
Industry in Industrial Arts, The, Robert Swanson, 328
New Structural Material for the School Shop, A, Alexander F. Bick, 263
Picturesque Night Lamp, A, Donald G. Hiller, 311
Plaster Bat Cabinet, Owen G. Parsons, 235
Plastic Combination Salt and Pepper Shaker, John R. Walker, 166
Plastics — Three-Dimensional Forming, Robert Swanson, 299
Polyester Cold-Setting Plastics in the School Shop, Alexander F. Bick, 14, 41, 104
Polyester Plastics in a New Role, Alexander F. Bick, 128
Polyester Plastics in the School Shop, Alexander F. Bick, 170, 198
Project Design for the Industrial-Arts Shop, Alexander F. Bick, 315

Course Outlines

College Industrial-Arts Curriculum, John A. Jarvis, 184
Course of Study in Shoe Repairing, A, Ernst H. Suerken, 101
General Metals Course, Clarence F. Eckert, 107
Organizing an Industrial Arts Course in Electricity, Don E. Perry, 110
Senior High School Electronics, Joseph Murri, 219

Design and Drafting (Architectural and Mechanical)

Art in Industrial Arts, The, Gerald Baysinger, 121
Chalkboard Compass, Walter H. Harrington, 169
Chisel Point Sander, Vernon D. Wilson, 338
Design for the Industrial-Arts Teacher, Alexander F. Bick, 296
Drafting Desk and Swivel Tee Square, Charles T. Laing, 140
Drafting Machine, Walter H. Harrington, 339
Drafting Room Tests, Leroy W. Draeger, 168
Drafting Table and Storage Cabinet, Herbert W. Yankee, 127
Drafting Tape Dispenser, Carl H. Hubachek, 310
Emphasizing Speed in Drafting, Maurice F. Richards and H. H. London, 289
Functional Drawing at Evanston Township High School, William L. Clanton, 188
Let's Make Drafting Realistic, Herbert W. Yankee, 154
Mathematical Method for Laying Out Sheet Metal Pipes, Thomas A. Shotwell, 145
Project Design for Teachers, Alexander F. Bick, 222
Shop Layouts — Ben Lomond High School, Don Campbell, Carl Wallis, and ElMont Bingham, 100

Editorials

Accident Prevention, 126
Age-Old Complaint, That, 40
AIAA Convention in Atlantic City, The, 126
Are You Changing Your Address?, 193
Attention, Please!, 40
AVA Convention in Atlantic City, The, 324
Business, Industry and Education, 324
Decimal Dimensioning, 252
Driver, Shop, and General Safety, 252
Ford Motor Industrial Arts Awards, 1955, 218
For the Readers' Aid, 218
How Is Your Vision?, 160
Industrial-Arts Teacher Recruitment, 9
Last Hour Suggestion, A, 218
Merry Christmas Season, The, 40
Need for Vocational Guidance, The, 160
New List of Inexpensive Teaching Materials, 218
New Year, The, 9
Opportunity for Students, An, 218
Publicity for the School Shop, 292
Science and Faith, 40
Selective Teacher Recruitment, 150
So This Is Requisition Time, 160
Starting a Craft Club, 292
Summer School, 160
Teachers' Responsibilities, 292
Then and Now, 252
Those Final Examinations, 193
Vocational Education Appropriation Raised, 218
Vocational Education Plus Persistence, 9
What About Summer School?, 126

Electricity

Buzzer and Switch, David Thomas and George V. Cardinale, 173
Electrical Test Panel, Thomas R. Gaines, 47
Integrating Electricity With Vocational Agriculture, Overton R. Johnson, 205
Organizing an Industrial Arts Course in Electricity, Don E. Perry, 110
Phono-Oscillator for the General Shop, A, M. D. Roberts and W. O. Satterley, 267
Picturesque Night Lamp, A, Donald G. Hiller, 311
Radio Frequency Measurements of Capacity and Inductance, Norman R. Dilley, 256
Senior High School Electronics, Joseph Murri, 219

English

Reading Characteristics in a Vocational-Technical School, Wallace L. Goldstein, 10

Exhibits

Competitive Industrial Arts Exhibits, E. Milton Grassell, 123

General Shop and Home Mechanics

Functional Drawing at Evanston Township High School, William L. Clanton, 188
Junior High School General Shop, A, Andrew K. Ault, 93
Visual Aid for General Shop House Construction, William L. Dudas, Jr., 202

Glossaries and Spelling Lists

Glossary of Heating and Ventilating Terms, Ernst H. Suerken, 38A (March)

Grades and Grading

Grading Will Always Be a Problem, Edward Barski, 214

Industrial Arts

Art in Industrial Arts, The, Gerald Baysinger, 121
Burmese Educators Visit the State University of New York, 251
Competitive Industrial Arts Exhibits, E. Milton Grassell, 123
Course of Study in Shoe Repairing, A, Ernst H. Suerken, 101
Educator From Ceylon Visits Teachers' Colleges in the U. S., 173
Four-State Conference, The, J. V. Melton, 249
General Method for Industrial Arts, Frank L. Steeves, 3
Improving the Students' Attitude, Edward R. Roberts, 241
Industrial Arts Awards Contest Winners, Charles Quinlan, Jr., 121
Industrial Arts Contributes to Effective Living, Geo. A. Willoughby, 141
Industrial Arts in the Schools of Italy, Catherine F. Capocci, 114
Industrial-Arts Shop Planning Factors, Eckhart J. Heid and Gordon L. Paulsen, 59
Industrial-Arts Teachers Competencies, Harry A. Pederson, 318
Inexpensive Teaching Materials for Industrial Education, Chris H. Groneman, 242, 282, 313, 343
News from The Stout Institute, 225
Ongoing Objective, The, Verne C. Fryklund, 147
Preparing Students for Industry, Lawrence G. Lindahl, 7
Rubber Stamp Making, Louis W. Shapiro, 335
Shop Layouts — Senachwine Consolidated High School, Kenneth C. Brumm, 100
Should College Credit Be Granted for Trade Experience?, A. A. Vezzani, 117
Some Administrative Soul Searching, T. A. Hippaka, 179
Textiles in the Elementary School Curriculum, Mary-Margaret Scobey, 211
Trends on the Educational Horizon, Heber A. Sotzin, 186

Integration

Integrating Electricity With Vocational Agriculture, Overton R. Johnson, 205

ANNUAL INDEX

for Vol. 44-1955

PAGES IN EACH ISSUE

January	1– 30
February	31– 58
March	59–116
April	117–146
May	147–178
June	179–204
September	205–244
October	245–284
November	285–314
December	315–344

Agriculture

Integrating Electricity With Vocational Agriculture, Overton R. Johnson, 205

Auto Mechanics

Gear Shift Instructor, George W. Schneider, 238
General Auto Shop for the High School, A. C. Vasis, Jr., 303
Rehabilitated Senn High School Auto Shop, The, A. C. Vasis, Jr., 89
Shop Layouts — Ben Lomond High School, Don Campbell, Carl Wallis, ElMont Bingham, 100

Boats

How to Build the Sandra Lee II, Lawrence Lovegren, 231

Bruce's School Shop Annual

Balanced Tool Boards, Owen G. Parsons, 97
Co-op Plan for Training Printers, R. J. Mackin, 94
Co-ordinated Industrial Arts and Vocational Agriculture, Anson W. Thompson, 83
Course of Study in Shoe Repairing, A, Ernst H. Suerken, 101
Essential Construction Features of School Shops, William Joseph Becker, 66
Glossary of Heating and Ventilating Terms, Ernst H. Suerken, 38A (March)
How to Plan a Functional School Shop, Geo. A. Willoughby, 68
Industrial Arts in the Schools of Italy, Catherine F. Capocci, 114
Industrial-Arts Shop Planning Factors, Eckhart J. Heid and Gordon L. Paulsen, 59
Junior High School General Shop, A, Andrew K. Ault, 93
Marinette Vocational School Shop Annex, Joseph Longo, 76
Metal Storage Rack, Morris K. Sigurdson, 106
New Industrial-Arts Shops at Howe High School, Alfred P. Smith, 82
New Industrial-Education Center, J. H. Detrick, 78
Office Machines Repair, Equipment, Tools, and Supplies, L. G. Wines, 84A (March)
Refrigeration Equipment, Tools, and Supplies, L. G. Wines, 86A (March)
Rehabilitated Senn High School Auto Shop, The, A. C. Vasis, Jr., 89
Shop Classification Schedule, Dwight D. Chinnock, 95
Shop Layouts — Ben Lomond High School, Don Campbell, Carl Wallis, ElMont Bingham, 100
Shop Layouts, Grand Haven Senior High School, R. M. Van Volkinburg, 96
Shop Layouts — Senachwine Consolidated High School, Kenneth C. Brumm, 100
Shop Planning and Layout, Howard E. Zielfe, 71
3-D Block Layout and School Shop Planning, J. Lyman Goldsmith, 69

Ceramics and Plastics

Design for the Industrial-Arts Teacher, Alexander F. Bick, 296
Design in Plastics — A Desk Lamp, Robert Swanson, 301
Helping Children Work With Clay, Mary-Margaret Scobey, 293
Industry in Industrial Arts, The, Robert Swanson, 328
New Structural Material for the School Shop, A, Alexander F. Bick, 263
Picturesque Night Lamp, A, Donald G. Hiller, 311
Plaster Bat Cabinet, Owen G. Parsons, 235
Plastic Combination Salt and Pepper Shaker, John R. Walker, 166
Plastics — Three-Dimensional Forming, Robert Swanson, 299
Polyester Cold-Setting Plastics in the School Shop, Alexander F. Bick, 14, 41, 104
Polyester Plastics in a New Role, Alexander F. Bick, 128
Polyester Plastics in the School Shop, Alexander F. Bick, 170, 198
Project Design for the Industrial-Arts Shop, Alexander F. Bick, 315

Course Outlines

College Industrial-Arts Curriculum, John A. Jarvis, 184
Course of Study in Shoe Repairing, A, Ernst H. Suerken, 101
General Metals Course, Clarence F. Eckert, 107
Organizing an Industrial Arts Course in Electricity, Don E. Perry, 110
Senior High School Electronics, Joseph Murri, 219

Design and Drafting (Architectural and Mechanical)

Art in Industrial Arts, The, Gerald Baysinger, 121
Chalkboard Compass, Walter H. Harrington, 169
Chisel Point Sander, Vernon D. Wilson, 338
Design for the Industrial-Arts Teacher, Alexander F. Bick, 296
Drafting Desk and Swivel Tee Square, Charles T. Laing, 140
Drafting Machine, Walter H. Harrington, 339
Drafting Room Tests, Leroy W. Draeger, 168
Drafting Table and Storage Cabinet, Herbert W. Yankee, 127
Drafting Tape Dispenser, Carl H. Hubachek, 310
Emphasizing Speed in Drafting, Maurice F. Richards and H. H. London, 289
Functional Drawing at Evanston Township High School, William L. Clanton, 188
Let's Make Drafting Realistic, Herbert W. Yankee, 154
Mathematical Method for Laying Out Sheet Metal Pipes, Thomas A. Shotwell, 145
Project Design for Teachers, Alexander F. Bick, 222
Shop Layouts — Ben Lomond High School, Don Campbell, Carl Wallis, and ElMont Bingham, 100

Editorials

Accident Prevention, 126
Age-Old Complaint, That, 40
AIAA Convention in Atlantic City, The, 126
Are You Changing Your Address?, 193
Attention, Please!, 40
AVA Convention in Atlantic City, The, 324
Business, Industry and Education, 324
Decimal Dimensioning, 252
Driver, Shop, and General Safety, 252
Ford Motor Industrial Arts Awards, 1955, 218
For the Readers' Aid, 218
How Is Your Vision?, 160
Industrial-Arts Teacher Recruitment, 9
Last Hour Suggestion, A, 218
Merry Christmas Season, The, 40
Need for Vocational Guidance, The, 160
New List of Inexpensive Teaching Materials, 218
New Year, The, 9
Opportunity for Students, An, 218
Publicity for the School Shop, 292
Science and Faith, 40
Selective Teacher Recruitment, 150
So This Is Requisition Time, 160
Starting a Craft Club, 292
Summer School, 160
Teachers' Responsibilities, 292
Then and Now, 252
Those Final Examinations, 193
Vocational Education Appropriation Raised, 218
Vocational Education Plus Persistence, 9
What About Summer School?, 126

Electricity

Buzzer and Switch, David Thomas and George V. Cardinale, 173
Electrical Test Panel, Thomas R. Gaines, 47
Integrating Electricity With Vocational Agriculture, Overton R. Johnson, 205
Organizing an Industrial Arts Course in Electricity, Don E. Perry, 110
Phono-Oscillator for the General Shop, A, M. D. Roberts and W. O. Satterley, 267
Picturesque Night Lamp, A, Donald G. Hiller, 311
Radio Frequency Measurements of Capacity and Inductance, Norman R. Dilley, 256
Senior High School Electronics, Joseph Murri, 219

English

Reading Characteristics in a Vocational-Technical School, Wallace L. Goldstein, 10

Exhibits

Competitive Industrial Arts Exhibits, E. Milton Grassell, 123

General Shop and Home Mechanics

Functional Drawing at Evanston Township High School, William L. Clanton, 188
Junior High School General Shop, A, Andrew K. Ault, 93
Visual Aid for General Shop House Construction, William L. Dudas, Jr., 202

Glossaries and Spelling Lists

Glossary of Heating and Ventilating Terms, Ernst H. Suerken, 38A (March)

Grades and Grading

Grading Will Always Be a Problem, Edward Barski, 214

Industrial Arts

Art in Industrial Arts, The, Gerald Baysinger, 121
Burmese Educators Visit the State University of New York, 251
Competitive Industrial Arts Exhibits, E. Milton Grassell, 123
Course of Study in Shoe Repairing, A, Ernst H. Suerken, 101
Educator From Ceylon Visits Teachers' Colleges in the U. S., 173
Four-State Conference, The, J. V. Melton, 249
General Method for Industrial Arts, Frank L. Steeves, 3
Improving the Students' Attitude, Edward R. Roberts, 241
Industrial Arts Awards Contest Winners, Charles Quinlan, Jr., 121
Industrial Arts Contributes to Effective Living, Geo. A. Willoughby, 141
Industrial Arts in the Schools of Italy, Catherine F. Capocci, 114
Industrial-Arts Shop Planning Factors, Eckhart J. Heid and Gordon L. Paulsen, 59
Industrial-Arts Teachers Competencies, Harry A. Pederson, 318
Inexpensive Teaching Materials for Industrial Education, Chris H. Groneman, 242, 282, 313, 343
News from The Stout Institute, 225
Ongoing Objective, The, Verne C. Fryklund, 147
Preparing Students for Industry, Lawrence G. Lindahl, 7
Rubber Stamp Making, Louis W. Shapiro, 335
Shop Layouts — Senachwine Consolidated High School, Kenneth C. Brumm, 100
Should College Credit Be Granted for Trade Experience?, A. A. Vezzani, 117
Some Administrative Soul Searching, T. A. Hippaka, 179
Textiles in the Elementary School Curriculum, Mary-Margaret Scobey, 211
Trends on the Educational Horizon, Heber A. Sotzin, 186

Integration

Integrating Electricity With Vocational Agriculture, Overton R. Johnson, 205

Leatherwork

Folding Coin Purse, Harold B. Rohn, 53
Leather Book Ends, W. P. Klingensmith, 262
Leather Carver's Striking Stick, Raymond B. Cole, 254

Machine Shop

Automatic Drift, Edward G. Senkewitz, 227
Basic Mechanism Display Board, Elias Paska, 50
Chalkboard Compass, Walter H. Harrington, 169
Chuck for Center Drill, George W. Deffendahl, 29
Drill Press Clamp, Clinton Hillyard, 223
Drill Press Hold-Down Device, Jos. J. Lukowitz, 224
Revolving V Block, Engelbert W. Herman, 18
Time-Record Card for Machine-Shop Students, A, Forrest Knoss, 39
Trade Terms Used in the Machinist Trade, Frank Huffaker 28A (March)
Training Crisis, Alfred Grayshon, 215

Metalwork

Aluminum Planter Jar, Dick Hutchinson, 19
Aluminum Tie Clip, Earl G. Tyler, 257
Anvil Book Ends, Richard M. Birch, 274
Book Ends, Harold O. Akeson, 176
Buzzer and Switch, David Thomas and George V. Cardinale, 173
Contemporary Mother-Son Wastepaper Basket, A, G. W. Schneider, 308
Copper Book Ends and Teapot Stands, William S. Rice, 205
Copper Enameling, Gretchen Grimm and Catherine Skeels, 230
Cutting an Art Metal Die, Raymond Hoffund, 194
Drafting Desk and Swivel Tee Square, Charles T. Laing, 140
Fish Pole Holder, William W. Wieser, 196
Forge — Construction and Operation, The, William D. Crance, Sr., 28
Fruit Bowl, Lee Arnold, 266
Functional Drawing at Evanston Township High School, William L. Clanton, 188
General Metals Course, Clarence F. Eckert, 107
Guatamalan Gamboleers, Simon S. Palestrant, 12
How to Pour-Off Molds, K. E. Parr, 202
Indian Silversmithing, Ben Hunt, 22
Laminated Silver Rings, John Krainik, 52
Mathematical Method for Laying Out Sheet Metal Pipes, Thomas A. Shotwell, 145
Memo Pad, J. W. Bollinger, 25
Memorandum Pad, George V. Cardinale, 330
Metal Casting in the School Shop, S. G. Hagen, 13
Metal Storage Rack, Morris K. Sigurdson, 106
Modern Coffee, End, and Corner Table, Dell Reed, 131
One Piece Silver Rings, John Krainik, 49
Picturesque Night Lamp, A, Donald G. Hiller, 311
Portable Folding Chair Rack, A, Charles E. Shoemaker, 201
Rolled Edge Tin Photograph Frame, Enid Bell, 29
Shop and Art Projects, Arthur and Margaret Rea, 253
Three-Way Project, A, William Plutte, 237
Tin Can Base for the Christmas Tree, C. E. Ford, 258
Tooling and Forming Aluminum Trays, Dick Hutchinson, 275
Utility Tool Carrier, Ben Longo and Conrad Mayer, 229
Wall Decorations Made of Wire Coat Hangers, Lorne E. Bunt, 241
Welded Metal Stools, Delbert A. Dyke, 239
Wrought Iron Magazine Rack, Ned Frisbie, 280

Photography

Basic Photography Unit for the General Shop, A, R. Paul Lightle, 238
Photography in the Graphic-Arts Laboratory, Harry A. Goldstein, 320

Printing

Case Bound Memo Pad, A, Cortland C. Doan, 56
Cleaning and Oiling Keyboard Cams, Kenneth L. Ross, 11
Color Block Prints from One Block, William S. Rice, 271
Co-op Plan for Training Printers, R. J. Mackin, 94
Functional Drawing at Evanston Township High School, William L. Clanton, 188
How to Monotype with Lithographic Crayons, William S. Rice, 24
Lithography Demonstration, L. W. Tana, 216
Making Glass Slides on the Letterpress, Albert Marino, 325
Photography in the Graphic-Arts Laboratory, Harry A. Goldstein, 320
Rubber Stamp Making, Louis W. Shapiro, 335
Three-Way Project, A, William Plutte, 237
Work Bank for Type Cabinet, Nicholas D. Germano, 284

Public Relations

Recognizing Industrial Leaders, Benjamin J. Novak, 248

Radio, Television, and Electronics

Shop Layouts — Ben Lomond High School, Don Campbell, Clark Wallis, and ElMont Bingham, 100

Related Work

Basic Mechanism Display Board, Elias Paska, 50
Mathematical Method for Laying Out Sheet Metal Pipes, Thomas A. Shotwell, 145
Reading Characteristics in a Vocational-Technical School, Wallace L. Goldstein, 10
Use of the Tape Recorder, Ghernot L. Knox, 119

Research Studies

Analysis of Shop Teacher's Responsibilities and Skills, Nelson A. Hauer, 1
Case Studies of *Good* and *Poor* Day Trade Teachers, Rupert N. Evans, 285
Danger Zones in Shop Safety, Stuart A. Anderson, 245
Emphasizing Speed in Drafting, Maurice F. Richards and H. H. London, 289
Let's Make Drafting Realistic, Herbert W. Yankee, 154
Reading Characteristics in a Vocational-Technical School, Wallace L. Goldstein, 10

Safety

Danger Zones in Shop Safety, Stuart A. Anderson, 245
Drill Press Hold-Down Device, Jos. J. Lukowitz, 224
Examination in School-Shop Safety, Marcus E. Erickson, 134
Grinder Safety Information and Test, Louis J. Enos, 334
Legal Aspects of Shop Accidents, Chester A. Gausman, 207
Safety Chart for the School Shop, A, Daniel Symmes, 176
Safety Kink, A, Whitney B. Newcomb, Jr., 130

School and Shop Utilites

Chalkboard Compass, Walter H. Harrington, 169
Clear View Dispenser, F. N. Newton, Jr., 162
Demonstration Mirror, The, Carl J. Schaefer, 44
Drafting Desk and Swivel Tee Square, Charles T. Laing, 140
Drafting Table and Storage Cabinet, Herbert W. Yankee, 127
Drafting Tape Dispenser, Carl H. Hubachek, 310
Drill Press Hold-Down Device, Jos. J. Lukowitz, 224
Forge — Construction and Operation, The, William D. Crance, Sr., 28
Plaster Bat Cabinet, Owen G. Parsons, 235
Portable Folding Chair Rack, A, Charles E. Shoemaker, 201
Transparent Circular Saw Guard, Charles R. Britting, 28

Shop Kinks

Broom Storage, C. Wayne Close, 225
Forged Film for Eye Protection, Glenwood Cummings, 204
Removing Dents in Wood, 225

Shop Management

Democratic Pupil Personnel Plan, A, Joseph Duffy, 295
Examination in School-Shop Safety, Marcus E. Erickson, 134
Organization of Project Reference Materials, Denham R. Griffin, 5
Records of School Shop Machinery, R. P. Van Tries, 150
Time-Record Card for Machine-Shop Students, A, Forrest Knoss, 39

Shop Planning

Balanced Tool Boards, Owen G. Parsons, 97
Co-op Plan for Training Printers, R. J. Mackin, 94
Co-ordinated Industrial Arts and Vocational Agriculture, Anson W. Thompson, 83
Essential Construction Features of School Shops, William Joseph Becker, 66
General Auto Shop for the High School, A. C. Vasis, Jr., 303
How to Plan a Functional School Shop, Geo. A. Willoughby, 68
Industrial-Arts Shop Planning Factors, Eckhart J. Heid and Gordon L. Paulsen, 59
Junior High School General Shop, A, Andrew K. Ault, 93
Marinette Vocational School Shop Annex, Joseph Longo, 76
New Industrial-Arts Shops at Howe High School, Alfred P. Smith, 82
New Industrial-Education Center, J. H. Detrick, 78
Power Tools at Archbishop Stepinac High School, Alfred A. DeCicco, 35
Shop Layouts — Ben Lomond High School, Don Campbell, Carl Wallis, and ElMont Bingham, 100
Shop Layouts. Grand Haven Senior High School, R. M. Van Volkinburg, 96
Shop Layouts — Senachwine Consolidated High School, Kenneth C. Brumm, 100
Shop Planning and Layout, Howard E. Zielfe, 71
3-D Block Layout and School Shop Planning, J. Lyman Goldsmith, 69

Sports, Games, and Toys

Fish Pole Holder, William W. Wieser, 196
How to Build the Sandra Lee II, Lawrence Lovegren, 231

Supervision

Evaluating Shop and Related Class Instruction, Edward B. Flaherty, 6
Shop Classification Schedule, Dwight D. Chinnock, 95

Teacher Training

Analysis of Shop Teacher's Responsibilities and Skills, Nelson A. Hauer, 1
Case Studies of *Good* and *Poor* Day Trade Teachers, Rupert N. Evans, 285
College Industrial-Arts Curriculum, John A. Jarvis, 184
Danger Zones in Shop Safety, Stuart A. Anderson, 245
General Method for Industrial Arts, Frank L. Steeves, 3
Industrial Arts in the Schools of Italy, Catherine F. Capocci, 114
Industrial-Arts Teacher Competencies, Harry A. Pederson, 318
Industrial Tours for the Industrial Teacher Education Program, Walter J. Robinson, 54
Looking for a Job?, M. W. Warren, 37
Mirror as a Demonstrational Aid, The, Welcome E. Wright, 116
Plan for Teacher Self-Appraisal, A, Duane Chamberlain, 151
Preparing Students for Industry, Lawrence G. Lindahl, 7
Professional Improvement Can Be Fun, Claude "Mike" Waln, 215
Recruitment Program, A, William H. Bowers, 221
Shop Classification Schedule, Dwight D. Chinnock, 95
Should College Credit Be Granted for Trade Experience?, A. A. Vezzani, 117
Some Administrator Soul Searching, T. A. Hippaka, 179
Trends on the Educational Horizon, Heber A. Sotzin, 186
Use of the Tape Recorder, Ghernot L. Knox, 119
Visual Aids as the Teacher Educator Sees Them, Merritt W. Haynes, 321

Teaching Aids

Basic Mechanism Display Board, Elias Paska, 50
Demonstration Mirror, The, Carl J. Schaefer, 44
Gear Shift Instructor, George W. Schneider, 238
Mirror as a Demonstrational Aid, The, Welcome E. Wright, 116

Television

Industrial Arts on Television in San Diego, California, Kenneth Phillips and William B. Steinberg, 315

Testing and Tests

Drafting Room Tests, Leroy W. Draeger, 168
Examination in School-Shop Safety, Marcus E. Erickson, 134
Grinder Safety Information and Test, Louis J. Enos, 334
Student-Prepared Tests Motivate Learning, C. B. Rauscher, 33

Visual Aids (Illustrative Materials and Visual Aids)

Industrial Arts on Television in San Diego, California, Kenneth Phillips and William B. Steinberg, 315
Useful Additions to the Portable Teaching Aid, Howard R. Schramm, 240
Visual Aid for General Shop House Construction, William L. Dudas, Jr., 202
Visual Aids as the Teacher Educator Sees Them, Merritt W. Haynes, 321

Vocational Education

Burmese Educators Visit the State University of New York, 251
Ceramics Shop Equipment, Tools, and Supplies, E. W. Carls, 144
Course of Study in Shoe Repairing, A, Ernst H. Suerken, 101
Educator from Ceylon Visits Teachers' Colleges in the U. S., 173
Four-State Conference, The, J. V. Melton, 249
Glossary of Heating and Ventilating Terms, Ernst H. Suerken, 38A (March)
Industrial Arts in the Schools of Italy, Catherine F. Capocci, 114
Industrial Education in Thailand, 217
Inexpensive Teaching Materials for Industrial Education, Chris H. Groneman, 242, 282, 313, 343

Lapidary Shop, Equipment, Tools, and Supplies, E. W. Carls, 144
Leathercraft, Tools, and Supplies, E. W. Carls, 145
News from The Stout Institute, 225
Office Machines Repair, Equipment, Tools, and Supplies, L. G. Wines, 84A (March)
Preparing Students for Industry, Lawrence G. Lindahl, 7
Radio, Television, Electronics Equipment, Tools, and Supplies, L. G. Wines, 142
Refrigeration Equipment, Tools, and Supplies, L. G. Wines, 86A (March)
Shop Planning and Layout, Howard E. Zielfe, 71
Should College Credit Be Granted for Trade Experience?, A. A. Vezzani, 117
Some Administrator Soul Searching, T. A. Hippaka, 179
Trends on the Educational Horizon, Heber A. Sotzin, 186

Weaving

Slot Loom, The, Marthann Alexander, 164
Spool Loom, The, Marthann Alexander, 165

Woodworking (Patternmaking, Turning, Cabinetmaking, Carpentry, Wood Finishing)

Balanced Tool Boards, Owen G. Parsons, 97
Basic Furniture Dimensions, Louis Barocci, 51
Beautifying and Protecting Wood Surfaces, George A. Soderberg, 136
Board Foot, The, Gilbert R. Anderson, 46
Book and Letter Rack, Merrill Chaney, 254
Bowling Pin Nut Bowl, Owen G. Parsons, 195
Buzzer and Switch, David Thomas and George V. Cardinale, 173
Calendar or Memorandum Pad Holder, George V. Cardinale, 178
Chair Caning Aid, Robert J. Schaefer, 133
Clear View Dispenser, F. N. Newton, Jr., 162
Coffee Table, C. Wayne Close, 261
Corner Table and Matching Table Lamp, George V. Radcliffe, 174
Drafting Table and Storage Cabinet, Herbert W. Yankee, 127
Drafting Tape Dispenser, Carl H. Hubachek, 310
Dynamite Cap Tie Rack, Owen G. Parsons, 341
Functional Drawing at Evanston Township High School, William L. Clanton, 188
Gliding Swing, John S. Triantafelow, 283
Glue and Clamp Rack, Eckhart J. Heid and Gordon L. Paulsen, 330
Gluing Rack, Dell Reed, 26
Gun Rack, George V. Cardinale, 174
Hand Carved Bowl, A, Charles F. Dumbleton, 161
Hand-Carved Serving Tray, A, Franklin H. Gottshall, 259
Hand Carved Table Lamp, F. M. Clemons, 26
Identifying Parts Within a Woodworking Project, William F. Holtrop, 21
Joint Puzzle, Ray C. Doane, 166
Knot Hole Award, Warren F. Eiseth, 278
Lamp Table, Louis Barocci, 280
Lazy Susan, Scott Williamson, 12
Leather Carver's Striking Stick, Raymond B. Cole, 254
Letter Holder, George V. Cardinale, 195
Making Projects Out of Scraps, Fred G. Fogg, 279
Mass Production in the Small Shop, William S. Reynolds, 31
Modern Coffee, End, and Corner Table, Dell Reed, 131
Modern End Table, E. Milton Grassell, 226
Paint Can Drip Wire, John C. McCrory, 241
Plaster Bat Cabinet, Owen G. Parsons, 235
Plastic Squares Lamp, C. H. Connally, 163
Power Tools at Archbishop Stepinac High School, Alfred A. DeCicco, 35
Reclaiming an Old Radio Cabinet, Richard R. Kyl, 341
Rustic Paper Napkin Holder, Frank B. Barrows, 25
Safety Chart for the School Shop, A, Daniel Symmes, 176
Salvaging Job, A, Stan Schirmacher, 46
Shop Layouts — Ben Lomond High School, Don Campbell, Carl Wallis, and ElMont Bingham, 100
Smoking Stand, Edward B. Ray, 41
Surf Board, Don Davis, 196
Television Lamp, George V. Cardinale, 266
Three-Way Project, A, William Plutte, 237
Transparent Circular Saw Guard, Charles R. Britting, 28
Trousers Hanger, William R. Woodie, 307
Twentieth-Century Type Tables, Stephen B. Madaras, 308
Two Story Nut Bowl, Waldemar E. Klammer, 132
Usable Shorts Rack, Owen G. Parsons, 332
Visual Aid for General Shop House Construction, William L. Dudas, Jr., 202
Wooden Clogs, Louis Barocci, 332

INDEX OF AUTHORS

A

Akeson, Harold O., 176
Alexander, Marthann, 164, 165
Anderson, Gilbert R., 46
Anderson, Stuart A., 245
Arnold, Lee, 266
Ault, Andrew K., 93

B

Barocci, Louis, 51, 280, 332
Barrows, Frank B., 25
Barski, Edward, 214
Baysinger, Gerald, 121
Becker, William Joseph, 66
Bell, Enid, 29
Bick, Alexander F., 14, 41, 104, 128, 170, 198, 222, 263, 296, 325
Bingham, ElMont, 100
Birch, Richard M., 274
Bollinger, J. W., 25
Bowers, William H., 221
Britting, Charles R., 28
Brumm, Kenneth C., 100
Bunt, Lorne E., 241

C

Campbell, Don, 100
Capocci, Catherine F., 114
Cardinale, George V., 173, 174, 178, 195, 266, 330
Carls, E. W., 144, 145
Chamberlain, Duane, 151
Chaney, Merrill, 254
Chinnock, Dwight D., 95
Clanton, William L., 188
Clemons, F. M., 26
Close, C. Wayne, 225, 261
Cole, Raymond B., 254
Connally, C. H., 163
Crance, William D., Sr., 28
Cummings, Glenwood, 204

D

Davis, Don, 196
DeCicco, Alfred A., 35
Deffendahl, George W., 29
Detrick, J. H., 78
Dilley, Norman R., 256
Doan, Cortland C., 56
Doane, Ray C., 166
Draeger, Leroy W., 168
Dudas, William L., Jr., 202
Duffy, Joseph, 295
Dumbleton, Charles F., 161
Dyke, Delbert A., 239

E

Eckert, Clarence F., 107
Eiseth, Warren F., 278
Enos, Louis J., 334
Erickson, Marcus E., 134
Evans, Rupert N., 285

F

Flaherty, Edward B., 6
Fogg, Fred G., 279
Ford, C. E., 258
Frisbie, Ned, 280
Fryklund, Verne C., 147

G

Gaines, Thomas R., 47
Gausman, Chester A., 207
Germano, Nicholas D., 284
Goldsmith, J. Lyman, 69
Goldstein, Harry A., 320
Goldstein, Wallace L., 10
Gottshall, Franklin H., 259
Grassell, E. Milton, 226
Grayshon, Alfred, 215
Griffin, Denham R., 5
Grimm, Gretchen, 230
Groneman, Chris H., 242, 282, 313, 343

H

Hagen, S. G., 13
Harrington, Walter H., 169, 339
Hauer, Nelson, 1
Haynes, Merritt W., 321
Heid, Eckhart J., 59, 330
Herman, Engelbert W., 18
Hiller, Donald G., 311
Hillyard, Clinton, 223
Hippaka, T. A., 179
Hoffland, Raymond, 194
Holtrop, William F., 21
Hubachek, Carl H., 310
Huffaker, Frank, 28A (March)
Hunt, Ben, 22
Hutchinson, Dick, 19, 275

J

Jarvis, John A., 184
Johnson, Overton R., 203

K

Klammer, Waldemar E., 132
Klingensmith, W. P., 262
Knox, Forrest, 39
Knox, Ghernot L., 119
Krainik, John, 49, 52
Kyl, Richard R., 341

L

Laing, Charles T., 140
Lightle, R. Paul, 238
Lindahl, Lawrence G., 7
London, H. H., 289
Longo, Ben, 229
Longo, Joseph, 76
Lovegren, Lawrence, 231
Lukowitz, Jos. J., 224

M

Mackin, R. J., 95
Madaras, Stephen B., 308
Marino, Albert, 325
Mayer, Conrad, 229
McCrory, John C., 241
Melton, J. V., 249
Murri, Joseph, 219

N

Newcomb, Whitney B., Jr., 130
Newton, F. N., Jr., 162
Novak, Benjamin J., 248

P

Palestrant, Simon S., 12
Parr, K. E., 202
Parsons, Owen G., 97, 195, 235, 332, 341
Paska, Elias, 50
Paulsen, Gordon L., 59, 330
Pederson, Harry A., 318
Perry, Don E., 110
Phillips, Kenneth, 315
Plutte, William, 237

Q

Quinlan, Charles, Jr., 171

R

Radcliffe, George V., 174
Rauscher, C. B., 33
Ray, Edward B., 41
Rea, Arthur and Margaret, 253
Reed, Dell, 26, 131
Reynolds, William S., 31
Rice, William S., 24, 203, 271
Richards, Maurice F., 289
Roberts, Edward R., 241
Roberts, M. D., 267
Robinson, Walter J., 54
Rohn, Harold B., 53
Ross, Kenneth L., 11

S

Satterley, W. O., 267
Schaefer, Carl J., 44
Schaefer, Robert J., 133
Schirmacher, Stan, 46
Schneider, George W., 238, 308
Schramm, Howard R., 240
Scobey, Mary-Margaret, 211, 293
Senkewitz, Edward G., 227
Shapiro, Louis W., 335
Shoemaker, Charles E., 201
Shotwell, Thomas A., 145
Sigurdson, Morris K., 106
Skeels, Catherine, 230
Smith, Alfred P., 82
Soderberg, George A., 136
Sotzin, Heber A., 186
Steeves, Frank L., 3
Steinberg, William B., 315
Suerken, Ernst H., 101, 38A (March)
Swanson, Robert, 299, 301, 328
Symmes, Daniel, 176

T

Tana, L. W., 216
Thomas, David, 173
Thompson, Anson W., 83
Triantafelow, John S., 283
Tyler, Earl G., 257

V

Van Tries, R. P., 150
Van Volkinburg, R. M., 96
Vasis, A. C., Jr., 89, 303
Vezzani, A. A., 117

W

Walker, John R., 166
Wallis, Carl, 100
Waln, Claude "Mike," 215
Warren, M. W., 37
Wieser, William W., 196
Williamson, Scott, 12
Willoughby, Geo. A., 68, 141
Wilson, Vernon D., 338
Wines, L. G., 84A (March), 86A (March), 142
Woodie, William R., 307
Wright, Welcome E., 116

Y

Yankee, Herbert W., 127, 154

Z

Zielfe, Howard E., 71